PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 39833		see Form PCT/ISA/220 as well as, where applicable, item 5 below.					
International application No. PCT/IL07/00918	International filing date (day/month/year) 19 July 2007 (19.07.2007)	(Earliest) Priority Date (day/month/year)					
Applicant SPECTRUM DYNAMICS							
according to Article 18. A copy is being to This international search report consists of It is also accompanied 1. Basis of the Report a. With regard to the language, the international a a translation of the	f a total of sheets. by a copy of each prior art document cited international search was carried out on the bas application in the language in which it was file international application into	in this report. sis of: ed. , which is the language					
b. This international search repauthorized by or notified to the with regard to any nucleotid. Certain claims were found as Unity of invention is lacking the text is approved as submit		e rectification of an obvious mistake					
,							
	tted by the applicant. according to Rule 38.2(b), by this Authority the date of mailing of this international search						
as suggested by the a	uthority, because the applicant failed to sugge uthority, because this figure better characterize	est a figure.					

Form PCT/ISA/210 (first sheet) (April 2007)

International application No.

PCT/IL07/00918

Box No. I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
ı. 🔀	Claims Nos.: 428-448,453-540 and 578-582 because they relate to subject matter not required to be searched by this Authority, namely: Please See Continuation Sheet			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.	Claims Nos.: 290-295, 359, 362, 363, 367, 371, 372, 380-382, 384, 449-540, 578-582 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. II	I Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
	tional Searching Authority found multiple inventions in this international application, as follows: Continuation Sheet .			
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on	Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.			
	The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.			
	No protest accompanied the payment of additional search fees.			

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2007)

International application No.

			PCT/IL07/00	918		
A. CLASSIFICATION OF SUBJECT MATTER IPC: A61K 51/00(2006.01);A61N 5/00(2006.01)						
USPC: According to	424/1.11;604/403 International Patent Classification (IPC) or to both nat	tional classification	on and IPC			
B. FIEL	DS SEARCHED	·				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/1.11; 604/403						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) East dbases- USPAT, PGPUB, EPO, JPO, Derwent						
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a			Relevant to claim No.		
Х	US 20060160157 (ZUCKERMAN, M.M.) 20 July 20	006 (20.07.2006)	, para 144	273, 274, 276		
у	US 20050205792 (RUOSSO et al) 22 September 200 0086	283-286, 289				
x 	US 20070166277 (LIU et al) 19 July 2007 (19.07.20	254-261, 267, 385-388, 566				
Y				283-286, 289		
x	US 20050020915 (BELARDINELLI et al) 27 January 2005 (27.01.2005), para 242			541, 552, 583, 584, 586, 587		
x	US 20040086437 (JACKSON et al) 6 May 2004 (06.05.2004), see abstract, para 0004			252, 253		
				·		
Further	documents are listed in the continuation of Box C.	See p	atent family annex.			
• \$1	pecial categories of cited documents:	"T" later document published after the international filing date and not in conflict with the application but cited				
"A" document	defining the general state of the art which is not considered to be of relevance		ple or theory underlying th			
· ·	plication or patent published on or after the international filing date	consid		e; the claimed invention cannot be considered to involve an inventive step the		
	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" docum				
"O" document	referring to an oral disclosure, use, exhibition or other means		obvious to a person skiller			
	document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family			
Date of the actual completion of the international search		Date of mailing of the international search report 15 OCT 2008				
01 September 2008 (01.09.2008) Name and mailing address of the ISA/US Authorized officer						
Mai	l Stop PCT, Attn: ISA/US missioner for Patents	MARIA B. MARVICH				
P.O.	. Box 1450 xandria, Virginia ∠?313-1450	Telephone No.	(703) 308-0196			
Facsimile No. (571) 273-3201						

Form PCT/ISA/210 (second sheet) (April 2007)

International application No. PCT/IL07/00918

Box II Observations where certain claims were found unsearchable 1, because they relate to subject matter not required to be searched by this Authority, namely:

because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example Ex parte Dunki, 153 USPQ 678 (Bd.App. 1967) and Clinical Products, Ltd. v. Brenner, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

BOX III, OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group 1-LXXXIII, claims 1-251 and 566-577, drawn to methods of 83 distinct methods of radioimaging as set forth in tables 1-83 wherein the methods require administration of radiopharmaceuticals followed by radioimaging the target organ.

Groups LXXXIV-CXLIV, claim 252, drawn to 60 distinct methods of packaging a pharmaceutical comprising packaging any one of 60 distinct radiopharmaceuticals.

Group CXLV-CCV, claim 253, drawn to any one of 60 distinct packaged radiopharmaceuticals.

Group CCVI, claims 254-272, drawn to a radiopharmaceutical have a dose equivalent of 2.5 mrem or less per kg body weight or 150 mrem or less.

Group CCVII-CCCLXVIII, Claims 273-276, drawn to one of approximately 162 radiopharmaceuticals that are in low dose

Group CCCLXIX, Claims 283-289, 296-331, 339-358, 360, 361, 364-366, 368-370, 373-379, 383, drawn to methods of radioimaging the heart comprising administering a low dose of a first and/or a second pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Group CCCLXX, Claims 283-284, 332-335, 368-370, 373-379, 383 drawn to methods of radioimaging the lung comprising administering a low dose of a first pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Group CCCLXXI, Claims 283-284, 336-338, 368-370, 373-379, 383 drawn to methods of radioimaging the bone comprising administering a low dose of a first pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Groups CCCLXXII-CCCLLXLII, Claims 385-427, drawn to any of 20 distinct kits comprising a first and second radiopharmaceutical wherein the 20 kits are found in claims 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412,414, 416, 418, 420, 422, 424, 426.

Group CCCXCIII, Claims 541-565 and 583-588, drawn to a diagnostic pharmaceutical kit comprising a first and/or second radiopharmaceutical with saline and/or a pharmacological stress agent and methods of using.

International application No. PCT/IL07/00918

The inventions of Groups I-LXXXXIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the "special technical feature" of claims 1-251 and 566-577 is the step of administering a radiopharmacetucial followed by radioimaging, which as shown by Lui et al (see e.g. claim 44) lacks novelty of inventive step and does not make a contribution over the art.

Each of Groups LXXXIV-CXLIV is drawn to methods of packaging structurally and functionally distinct compounds that do not share a common structural feature. And as the methods are drawn to processes that require distinct products, the methods themselves are distinct in that distinct products are used in the methods and distinct products are the result of the methods. Groups I-LXXXXIII and Groups LXXXIV-CXLIV do not share any method steps and therefore comprise distinct methods and steps.

Each of Groups CCVII-CCLXVIII do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCLXVIII is a low dose radiopharmaceutical, which is shown by Zuckerman (20060160157, see para 144), to lack novelty of inventive step and does not make a contribution over the prior art.

Groups CCCLXIX-CCCLXXI do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCCLXVIII is a low dose radiopharmaceutical that is administered followed by acquiring date representing distribution of the at least first radiopharmaceutical, which is shown by Liu et al (see 20070166227 for PCTUS0504872, see e.g. para 233) in view of Ruosso et al (20050205792, see figure 5 and para 0086), to lack novelty of inventive step and does not make a contribution over the prior art.

Groups CCCLXXII-CCCLLXLII do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCCLXVIII is a kit comprising two radiopharmaceuticals, which is shown by Liu et al (see 20070166227 for PCTUS0504872, see e.g. para 139), to lack novelty of inventive step and does not make a contribution over the prior art.

Group CCCXCIII, does not relate to a single general inventive concept with any of Groups I- CCCXCII because they lack the same or corresponding technical feature. The "special technical feature" of Group CCCXCIII is a kit comprising two radiopharmaceuticals, which is shown by Belardinelli et al (US 20050020915; see para 242), to lack novelty of invention and does not make a contribution over the prior art.